

**REMARKS**

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

**Status of Claims:**

No claims are currently being cancelled.

Claim 1 is currently being amended.

Claims 14 and 15 are currently being added.

This amendment and reply adds and amends claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claims remain under examination in the application, is presented, with an appropriate defined status identifier.

After adding and amending the claims as set forth above, claims 1-4 and 13-15 are now pending in this application for further examination on the merits, whereby claims 5-12 are withdrawn from consideration.

**Claim Rejections – Prior Art:**

In the final Office Action, claims 1, 2 and 13 were rejected under 35 U.S.C. § 103(a) as being unpatentable over JP 2002-086854 to Nakamura in view of U.S. Patent No. 6,134,105 to Lueker; and claims 3 and 4 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Nakamura and Lueker and further in view of U.S. Patent No. 6,069,587 to Lynch. These rejections are traversed with respect to the presently pending claims under rejection, for at least the reasons given below.

Presently pending independent claim 1 now recites:

*a main body of the image forming apparatus;*

*a reversing automatic document feeder that is provided on an upper part of the main body of the image forming apparatus;*

*a wireless LAN module that is provided inside a rear surface of the main body of the image forming apparatus;*

*two antennas that are provided on the rear surface of the main body of the image forming apparatus; and*

*a cable that connects the wireless LAN module and the two antennas with a shortest distance,*

*wherein the two antennas are disposed at positions where a first of the two antennas compensates for degradation in radiation characteristics of a second of the two antennas caused by the reversing automatic document feeder.*

In the present invention as recited in claim 1, two antennas are arranged at positions such that one antenna compensates for degradation in radiation characteristics of the other antenna caused by a reversing automatic document feeder. As a result, even if a reversing automatic document feeder is placed on the upper part of a main body of an image forming apparatus, it is possible to prevent the radiation characteristics from degrading.

Neither Nakamura nor Lueker that were cited in the Office Action teaches or suggests the above features of *two antennas that are disposed at positions where a first of the two antennas compensates for degradation in radiation characteristics of a second of the two antennas caused by a reversing automatic document feeder.*

Accordingly, presently pending independent claim 1 is patentable over the combined teachings of Nakamura and Lueker (and whereby Lynch, which was cited with the other art of record against claims 3 and 4, also does not teach or suggest the above-mentioned features added to claim 1).

**New Claims:**

New claims 14 and 15 have been added to recite additional features of the present invention that are believed to provide an additional basis of patentability for those claims, beyond the reasons given above for their base claim 1.

**Conclusion:**

Since all of the issues raised in the final Office Action have been addressed in this Amendment and Reply, Applicant believes that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing or a credit card payment form being unsigned, providing incorrect information resulting in a rejected credit card transaction, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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